

PA-SHT REV 6

EXISTING BUILDING GROUND BUS

PE #18

CONDUITS TURNING UP (TYP)

PE #19

PE #20

CONDUITS TURNING DOWN (TYP)

PE #21

RETURN AIR SHAFTWAY

SUPPORT CONDUITS UTILIZING KINDORF

EXISTING HIGH VOLTAGE FEEDER

2000A, COPPER FEEDER BUSWAY, SEE GENERAL NOTE #6, DWG E-1

TRANSITION BOX

EXISTING TRANSFORMER 1500KVA, 13.8KV-480/277V (TYP)

EXISTING 480/277V SWITCHBOARD (TYP)

SECTION A-A

EXISTING FEDERAL PACIFIC, 1600A ALUM. PAIRED PHASE BUSWAY TO REMAIN.
1#4/0 TO BUILDING GROUND BAR CONNECT TO GROUND LUG IN TRANSITION BOX.

SWEEP CONDUITS BELOW EXISTING BUSWAY

TRANSITION BOX (TYPICAL)

TIE BUSWAY INTO EXISTING SWITCHBOARD

ROUTE BELOW EXIST WIRING TROUGH
(2) 90° OFFSETS (DOWN IN ELEVATION)

SEE GENERAL NOTE #14, DWG E-1.

(2) 90° OFFSETS (UP IN ELEVATION)

CABLE TAP BOX (TYPICAL)

2000A, COPPER FEEDER BUSWAY, SEE GENERAL NOTE #6, DWG E-1.

(2) 90° OFFSETS (DOWN IN ELEVATION)

SECURE TO BUILDING STRUCTURAL BEAMS, SEE DETAIL DWG #E-24 & ARCH DWGS

SEE RISER DRAWING E-16 & DWG E-12 FOR CONTINUATION

UP TO CABLE SUPPORT BOX ON 79TH FLOOR

TO RESPECTIVE CABLE TOP BOX

5-4" CONDUITS, 4#500KCMIL & 1#4/0 GND WIRE

CABLE SUPPORT BOX, NEMA TYPE 4, 36" X 36" X 16" D. WITH COVERS ON FRONT AND BACK.

5-4" CONDUITS, 4#500KCMIL & 1#4/0 GND WIRE

SEE RISER DWG. E-16 & DWG. E-12 FOR CONTINUATION

SECTION B-B

NOTES:

1. SEE DRAWING E-1 FOR BUSWAY SCHEDULE & GENERAL NOTES.
2. TRANSFORMERS & SWITCHBOARDS WILL BE LIVE DURING INSTALLATION

SUBSTATION #SS-75N

(SUBSTATION SS-75N)

SUBSTATION SS-75N

SHAFT & ELEC. CL. AREAS

ONE WORLD TRADE

TWO WORLD TRADE

WORK AREA KEY PLAN

Sheet 28 of 41



THE PORT AUTHORITY OF NY & NJ

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Engineering Program Manager

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3/15/01 Drawings of Record
No. Date Revision Approved

Engineering Department
Design Divisions
The World Trade Center
Electrical/HVAC
Upgrade Program

Title
LOW VOLTAGE DISTRIBUTION
ONE WTC ELECTRICAL
75TH FLOOR
NORTH SIDE
BUS & RISER CABLE LAYOUT
(SUBSTATION SS-75N)

This drawing subject to conditions in contract. All inventions, ideas, designs and methods herein are reserved to Port Authority and may not be used without its written consent.

CJ/CADD MW/CADET FJE
Designed by Drawn by Checked by

Date 10/4/93 Scale 1/4" = 1'-0"

Contract Number Drawing Number

WTC-804.041 E-11

FILE NAME PAET-03